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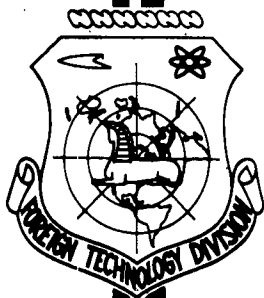
# TRANSLATION

LIGHT-ACCELERATOR

By

A. Midler

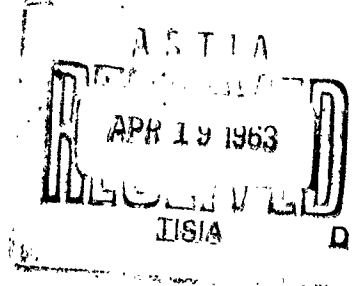
## FOREIGN TECHNOLOGY DIVISION



AIR FORCE SYSTEMS COMMAND

WRIGHT-PATTERSON AIR FORCE BASE

OHIO



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## UNEDITED ROUGH DRAFT TRANSLATION

LIGHT-ACCELERATOR

BY: A. Midler

English Pages: 2

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24 October 1962, p 5

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## Light- Accelerator

by

A. Midler

It is possible to construct an accelerator on light waves.

Such an idea came up for the first time. Its authors Soviet physicists prof. Andrey Kolomenskiy and cand. of Phys. Math Sc. Andrey Lebedev.

The scientists made the following experiment. They ran a powerful beam of light into the interior of a long coil with current. The light travelled along the axis of the coil, and into here was also let in a stream of charged elementary particles. Before the scientists originated a curious picture. The particles in the interior of the coil began moving in tact with the light waves. The light began accelerating same.

The experimentors assume, that in this way the beam of light is capable of accelerating particles to very high velocities.

Soviet scientists proposed to utilize the new physical effect in acceleration technique . In their opinion this is principally possible.

In this way, is opened the possibility of constructing original accelerators, working on a powerful beam of light. They will not be similar to modern devices and will be free of many deficiencies.

The scientists assume, that this phenomenon can also be utilized for amplification of radio waves of various ranges.